This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims**

- 1. (Previously presented) An extrusion coated substrate having a coating comprising a polyethylene produced by polymerization catalysed by a single site catalyst and comprising as comonomers to ethylene at least two  $C_{4-12}$  alpha olefins.
- 2. (Previously presented) An extrusion coated substrate as claimed in claim 1 wherein said polyethylene comprises as comonomers to ethylene at least two alpha olefins selected from but-1-ene, hex-1-ene, 4-methyl-pent-1-ene, hept-1-ene, oct-1-ene, and dec-1-ene.
- 3. (Previously presented) An extrusion coated substrate as claimed in claim 2 wherein said polyethylene comprises an ethylene butene copolymer and an ethylene hexene copolymer.
- 4. (Previously presented) An extrusion coated substrate as claimed in claim 1 wherein said polyethylene comprises a bimodal terpolymer comprising
  - a) a lower molecular weight copolymer of ethylene and but-1-ene
  - b) a higher molecular weight copolymer of ethylene and a C<sub>5</sub> to C<sub>12</sub> alpha-olefin,
- 5. (Previously presented) An extrusion coated substrate as claimed in claim 1 wherein said polyethylene comprises a bimodal polymer comprising

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- a) a lower molecular weight polymer which is a binary copolymer of ethylene and a  $C_4$  to  $C_{12}$  alpha-olefin and
- b) a higher molecular weight polymer which is either a binary copolymer of ethylene and but-1-ene, if the lower molecular weight polymer of a) is a binary copolymer of ethylene and a C<sub>5</sub> to C<sub>12</sub> alpha-olefin, or a terpolymer of ethylene, but- 1-ene and a C<sub>5</sub> to C<sub>12</sub> alpha-olefin.
- 6. (Currently amended) An extrusion coated substrate as claimed in claim 1 to 5 wherein said polyethylene has an MWD 3 to 6, an MFR<sub>2</sub> of 5 to 20 g/l0min and a density of 905 to 930 kg/m3.
- 7. (Currently amended) An extrusion coated substrate as claimed in claim 1 to 6 wherein said polyethylene has a heat sealing force which varies by less than 2N/25.4 mm over a temperature range of at least 30°C.
- 8. (Currently amended) An extrusion coated substrate as claimed in claim 1 to 7 wherein said coating comprises LDPE.
- 9. (Previously presented) An extrusion coated substrate as claimed in claim 8 wherein LDPE forms 15 to 35 wt% of the coating.
- 10. (Currently amended) An extrusion coated substrate as claimed in claim 1 to 9 comprising multiple coating layers.

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- 11. (Currently amended) An extrusion coated substrate as claimed in claim 1 to 10 wherein said substrate is paper, cardboard, a polyester film, cellophane, polyamide film, polypropylene film, oriented polypropylene film or aluminium foil.
- 12. (Previously presented) The use of a polyethylene produced by polymerization catalysed by a single site catalyst and comprising as comonomers to ethylene at least two different  $C_{4-12}$  alpha olefins in extrusion coating or for the formation of cast films.
- 13. (Previously presented) A process for extrusion coating a substrate comprising extruding a multimodal polyethylene produced by polymerization catalysed by a single site catalyst and which comprises as comonomers to ethylene at least two different C<sub>4-12</sub> alpha olefins to form a polymer melt and coating a substrate with said melt.
- 14. (Previously presented) A process as claimed in claim 13 wherein said polyethylene is produced in a two-stage process comprising a loop reactor followed by a gas phase reactor.
- 15. (Currently amended) A process as claimed in claim 13 or 14 wherein said polyethylene is blended with LDPE prior to extrusion.

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